



# SANTRICITY™ SOFTWARE SUITE FOR FLEXLINE™

## 200 SERIES AND 300 SERIES STORAGE SYSTEMS

### Key benefits

#### Enhance IT productivity

Gain a single point of control for multiple tiers of storage by using a single application to manage all of your FlexLine 200 and 300 Series storage systems.

#### Get more from your storage

Create a system optimized for both performance and cost-effectiveness by designing flexible storage configurations.

#### Protect critical data

Enhance data protection with easy-to-use premium features that offer a range of choices for keeping data safe.

#### Save time, cut costs

Dynamically configure, manage, expand and maintain your system with enterprise-class management features.

#### Protect your investment

Cut costs through a just-in-time approach to storage purchases. Grow without penalty with no-tiered software licensing. Migrate data during upgrades easily, employing premium features.

### SANtricity software suite

As data volumes grow, time becomes more scarce. That's the story in data centers everywhere. Around the world, IT teams are looking for solutions that enable consolidated storage management, centralized control of resources and faster completion of backups and other information management activities.

These are among the benefits delivered by SANtricity software suite for FlexLine 200 and 300 Series storage systems. The SANtricity software suite is brought to you through a strategic alliance between StorageTek® and Engenio Information Technologies, Inc., formerly LSI Logic Storage Systems.

SANtricity software suite consists of a base component — SANtricity Storage Manager software — plus a selection of premium features that allow you to make the most of your storage:

- SANshare Storage Partitioning software
- Snapshot Copy software
- Internal Volume Copy (IVC) software
- Remote Volume Mirror (RVM) software

These powerful products offer a new standard of operational flexibility when combined with FlexLine 200 and 300 Series storage systems. SANtricity software suite helps you get more done and meet your business objectives sooner.

This forward-looking software suite offers pay-as-you-grow, enterprise-class functionality along with SAN-readiness. Add SANtricity software suite and gain powerful capabilities to manage data more efficiently, improve utilization and productivity and successfully manage information throughout its lifecycle.

### SANtricity Storage Manager software

#### Manage, administer and maintain your storage

SANtricity Storage Manager software provides a powerful, yet easy-to-use, GUI for managing FlexLine 200 and 300 Series storage systems. It enables online administration, offers a consistent interface across all operating systems, and provides the ability to manage any or all StorageTek FlexLine 200 and 300 Series systems from any location on the network. In essence, SANtricity Storage Manager software gives you the ability to manage your systems and data dynamically from anywhere, anytime.

You gain a single, consistent view through the Java-based GUI, which is compatible with major UNIX and Windows-based operating systems. This single interface reduces operator training costs by providing a common platform for administering both primary and secondary disk systems. It also allows a storage administrator to manage more capacity. You can perform administrative and maintenance tasks — including configuration, re-configuration, expansion and performance tuning — during normal business hours, without system downtime and without interruption to data access.

#### Gain industry-leading flexibility

consolidated environments need. These environments often have multiple servers, each with varying and potentially drastically different performance demands, while sharing a single disk system.



SANtricity Storage Manager software's configuration flexibility gives you the ability to mix drive types from high performance Fibre Channel to cost-effective SATA to high density blades all within a single disk system.

SANtricity Storage Manager software gives you the tools you need to:

- Easily increase the size of an existing volume via dynamic volume expansion
- Add new drives to an existing volume group via dynamic capacity expansion
- Add and configure new drive modules
- Make newly configured volumes immediately accessible
- Update controller firmware without disruption
- Migrate segment size and RAID level, dynamically
- Change out failed components quickly and easily
- Conduct performance monitoring and tuning

#### **Sustain the highest levels of availability**

SANtricity Storage Manager software includes problem-resolution and security features that make it easier for administrators to avoid errors and do the right thing, regardless of server operating environments.

The software provides:

- Fully redundant, dual I/O paths with automated failover
- A Recovery Guru that offers valuable troubleshooting assistance by diagnosing disk system problems and determining the appropriate procedure to use for recovery
- Support for up to 15 global hot spares to maintain system uptime
- One-button capture of component and configuration data with current status

### **SANshare Storage Partitioning software**

#### **Stretch your storage investment**

SANshare Storage Partitioning software allows you to consolidate storage in multi-platform environments. The flexibility provided by SANshare software enables a range of hosts with different applications, performance or data protection demands to effectively share a single StorageTek disk system.

You can share your open systems disk investment with as many as 64 hosts or host groups within your SAN environment. Partition access is maintained at the controller level, providing complete data integrity in multi-host, multi-OS environments.

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With SANshare Storage Partitioning software, you can:

- Improve storage utilization — capacity is assigned exactly where it's needed from a unified storage pool
- Increase efficiency — fewer administrators can manage a greater amount of storage
- Enhance flexibility — administrators can choose from a range of volumes with different RAID levels and drive capacities to meet the needs of different servers
- Reduce cost of ownership — increase system-wide efficiency

### Snapshot Copy software

#### Replicate data instantly

Snapshot Copy software gives you an instantaneous point-in-time image of a volume and requires only a fraction of disk space. The image is fully accessible from your SAN with the same availability characteristics of the original volume. Because replication is non-disruptive, you can complete incremental backups without affecting normal business operations.

Snapshot Copy software can also enable non-production servers to access an up-to-date copy of production data for a variety of applications — including application testing or data mining — while the production data remains online and user-accessible.

Snapshot Copy software helps you:

- Improve backup efficiency and minimize downtime — applications on the primary volume continue during backup procedures to disk or tape
- Test new applications on a snapshot of the data set before deployment
- Facilitate data mining by creating subsets of a data set for different levels of analysis

### Internal Volume Copy software

#### Optimize storage performance

Take the data protection of Snapshot Copy software to the next level by providing a true physical copy with Internal Volume Copy (IVC) software. This premium feature creates a full point-in-time copy of a volume within a disk system for many uses beyond just backup.

The physical copy, or clone, of a volume is a unique entity. Without affecting the performance of the production volume, it can be assigned to any host and used by applications requiring a full point-in-time copy of production data — such as backup, application testing or development, information analysis or data mining.

IVC software gives you the tools to:

- Improve performance tuning — easily move data between RAID levels or to faster or higher capacity drives
- Optimize system operations — performance input to original source data is eliminated and fast data replication takes place without repository space constraints and time limits
- Enhance data recovery — partner with Remote Volume Mirror software to mirror data to a remote system and still shorten recovery times using IVC software's full point-in-time copy, all without affecting performance of the original, production volume

## Remote Volume Mirror software

### Gain two-way data protection

Remote Volume Mirror (RVM) software protects against data loss through remote data replication. Primary volumes on one StorageTek open disk system can be mirrored across a SAN to volumes on another open disk system. RVM supports both synchronous and asynchronous data transfers for mirroring data to a storage system across campus or across the country.

Support for cross-mirroring enables two separate disk systems to function as remote disaster recovery sites. Since RVM software is storage-based, there is no server or application overhead. In addition to disaster recovery, remote volumes can be used for offline backups, application testing and data mining.

RVM software enables you to:

- Provide another layer of data protection with an offsite disaster recovery site
- Replicate multiple copies of data to protect against data loss
- Access offline data for backups, testing and recovery
- Control the impact of data transfers through user-selectable synchronization priority
- Cross-mirror data between storage systems to protect the data on both
- Establish business continuance volumes for more robust data protection and availability

## Applications

Cost-effective database operations — SANtricity Storage Manager software supports multiple drive types behind a single controller to help you stretch your limited IT budget. Keep active data files and tables in high-performance Fibre Channel drives and put less-accessed files, such as archive logs or control logs, on cost-effective, high-density ATA drives.

Disaster recovery/business continuity — SANtricity software suite for FlexLine 200 and 300 Series storage systems provides cost-effective, storage-based, integrated replication services. Snapshot Copy software and Remote Volume Mirror software provide a variety of logical, physical, local and remote replication choices to efficiently and effectively protect valuable data.

Storage consolidation — FlexLine 200 and 300 Series storage systems, in combination with the SANtricity software suite, can help reduce the cost and complexity of storage management and provide high-performance access to data for multiple servers in a consolidated disk environment.

## The FlexLine family

StorageTek's FlexLine family of online storage systems delivers genuine options for flexible storage architectures. The FlexLine family spans from virtual storage systems to high-performance access-centric systems to low-cost capacity-centric systems.

While encompassing a broad product spectrum, the FlexLine family provides operational flexibility across the network — a basic premise behind information lifecycle management. This flexibility helps you in your efforts to store the right data in the right place at the right time.

## StorageTek — at your service

StorageTek is a pioneer in enterprise storage with a 30-year track record and a corporate culture that nurtures innovation. Only StorageTek — with its large portfolio of network, disk and tape systems and services, combined with knowledge and technical expertise — can offer true freedom of choice in enterprise storage. You get the systems and technical resources you need to align your storage strategy with your business needs — year after year.

### To learn more

To learn more about FlexLine online storage systems and the SANtricity software suite and how they can help you make information lifecycle management a reality, contact your StorageTek or reseller sales representative.



### ABOUT STORAGETEK®

Storage Technology Corporation (NYSE: STK) is a \$2 billion global company that enables businesses, through its information lifecycle management strategy, to align the cost of storage with the value of information. The company's innovative storage solutions manage the complexity and growth of information, lower costs, improve efficiency and protect investments. For more information, visit [www.storagetek.com](http://www.storagetek.com), or call 1.800.275.4785 or 01.303.673.2800.

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